ALTRA INDUSTRIAL MOTION

Sure-Flex® Plus Elastomeric Couplings (Metric)

TB Wood's®
Incorporated

An Altra Industrial Motion Company

Sure-Flex® Plus couplings are a TB Wood's original!

Sure-Flex Plus couplings utilize EPDM, Neoprene, Hytrel™ and Urethane flexible elastomer sleeves to transmit torque and accommodate shaft misalignment. Sure-Flex Plus couplings have exceptional torsional flexibility, with the 4-way flexing action absorbing virtually all types of shock, vibration, misalignment and end float. Sure-Flex Plus couplings are an excellent choice when low cost, high flexibility, low vibration and easy installation are important.

Easy, Quick Installation

Sure-Flex Plus can be installed quickly and easily, thanks to its simple design with no bolts, gaskets, covers or seals. Alignment can be checked on the precision machined flanges using only a straightedge and calipers. No special tools are needed for installation, alignment or removal.

No Lubrication, Trouble-Free Operation

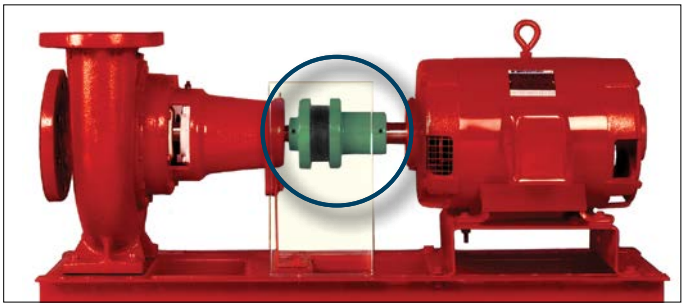
The teeth of the sleeve lock into the teeth of the flanges without clamps or screws, tightening under torque to provide smooth transmission of power. Couplings are not affected by abrasives, dirt or moisture, eliminating the need for lubrication or maintenance and providing clean, dependable, quiet performance.

Sure-Flex Plus couplings last over 3X longer

Fatigue Test to Failure results reveal that Sure-Flex Plus sleeves last over three times as long as the nearest competitive sleeve.
See brochure P-7819-TBW.

Features (Metric)

- Up to 8.20 kNm; 72,480 in.lbs.
- Quick and easy installation
- Spacer, bushed hub and clamping hub designs in stock
- Flexible design accommodates misalignment and protects equipment
- 7° to 21° torsional wind up
- Needs no lubrication, no maintenance



Applications

Sure-Flex Plus couplings can be found hard at work in many industries such as power generation and material handling. These couplings are ideal for a wide variety of applications including:

- Pumps
- Fans/Blowers
- Compressors
- Mixers
- Electric Motors
- Conveyors

New! Sure-Flex® PLUS+

For over 50 years, TB Wood's has led the coupling industry with the original TB Wood's Sure-Flex design. And we haven't stopped innovating: this industry favorite just got even better. Our new Sure-Flex Plus EPDM and Neoprene sleeves are best-in-class for coupling performance and value. Here's why:

High Torque Rating

- **30% Increased Torque Rating**
  Sure-Flex Plus sleeves provide longer service life in demanding applications, reducing required maintenance and associated replacement cost.

Longer Life

- **Sure-Flex Plus Lasts Over 3X Longer than the Competition**
  Extensive testing shows our sleeves outlast the imitators. More uptime means less costly downtime.

Better Value

- **Save Money Using a Smaller Coupling**
  Over 50% of common applications can now use a smaller coupling, lowering the cost of both coupling purchase and sleeve replacement.

Interchangeable

- **Retrofits to Existing Flanges**
  No need to replace the full coupling – the Sure-Flex Plus sleeve design is 100% compatible with the current industry standard created by TB Wood's over 50 years ago.

Sure-Flex Plus 4-Way flexing action absorbs all types of shock, vibration and misalignment

Torsional

Sure-Flex Plus coupling sleeves have an exceptional ability to absorb torsional shock and dampen torsional vibrations. The EPDM and Neoprene sleeves wind up approximately 21° torsionally at their rated torque. Hytrel sleeves wind up approximately 7°.

Angular

The unique design of the Sure-Flex Plus coupling's teeth allows for the absorption of angular misalignment without wear. Refer to page 17 for misalignment limits. Angular alignment can be achieved using only a scale and calipers.

Parallel

Parallel misalignment is absorbed without wear or appreciable energy loss. The lateral flexibility of the coupling sleeve minimizes radial bearing loads normally associated with parallel misalignment. This feature also allows for easier installation by the use of components bored for slip fits without fretting corrosion occurring at the shaft. Refer to page 17 for parallel misalignment limits. Only a straight-edge and feeler gage are required for parallel alignment.

Axial

Sure-Flex Plus couplings may be used in applications with limited axial shaft movements. The axial compressibility of the EPDM and Neoprene sleeves allows for shaft end-float without the absolute transfer of thrust loads.

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Metric Version Catalog

For Imperial information see Catalog P-1690-TBW

Sure-Flex Plus Selection Guide

Use the Coupling Selector Program on www.TBWoods.com/Select
Or follow these steps:

Sure-Flex Plus couplings are selected as component parts.

1. Determine SLEEVE material and type.
   Refer to pages 4 & 5
2. Determine coupling SIZE.
   Refer to pages 6 & 7
3. Determine FLANGES to be used.
   Refer to pages 8 thru 16

Specify coupling components.

- Example #1 - Close coupled
  Size 6, Type S flange w 35 mm bore
  Size 6, Type S flange w 25 mm bore
  Size 6, Split EPDM sleeve
- Example #2 - 5" Between shaft spacer
  Size 9, Type SC flange for #11 hub
  Size 9, Type SC flange for #9 hub
  Size 11 Hub w 2-3/8" bore
  Size 9 Short hub w 1-1/8" bore
  Size 9 Solid Hytrel sleeve

Prod. Number	Prod. Description
6S35MM	6S x 35 mm
6S25MM	6S x 25 mm
6JS	6JES
9SC5011	9SC50-11
9SC50	9SC50
11SCH238	11SCH x 2-3/8
9SCHS118	9SCHS x 1-1/8
9H	9H

Selection Guide

Sleeve Selection

Sure-Flex Plus Sleeves are available in four materials or compounds and various shape configurations.

New Sure-Flex Plus EPDM and Neoprene sleeves have 30% higher torque capacity. See page 2 for details.

	EPDM	Neoprene	Hytrel	Urethane
Constructions Available				
1 pc, unsplit	JE	JN	H	U
1 pc, split	JES	JNS	—	—
2 piece, E/N with ring	E	N	HS	—
Typical Use	General Purpose	Oil Resistant Non-Flame	General Purpose	Stiffness
Rel. Rating	1X	1X	4X	4X
Wind-Up Angular	21°	21°	7°	3°
Misalign	1°	1°	1/4°	1/4°
Temperature (C)				
maximum	+135° C	+93° C	+121° C	+93° C
minimum	–34° C	–18° C	–54° C	–62° C

Sure-Flex Plus Sleeves

Part Number	Description
3J	3JE EPDM
4J	4JE EPDM
5J	5JE EPDM
6J	6JE EPDM
7J	7JE EPDM
8J	8JE EPDM
9J	9JE EPDM
10J	10JE EPDM
3JS	3JES EPDM Split
4JS	4JES EPDM Split
5JS	5JES EPDM Split
6JS	6JES EPDM Split
7JS	7JES EPDM Split
8JS	8JES EPDM Split
9JS	9JES EPDM Split
10JS	10JES EPDM Split
3JN	3JN Neoprene
4JN	4JN Neoprene
5JN	5JN Neoprene
6JN	6JN Neoprene
7JN	7JN Neoprene
8JN	8JN Neoprene
3JNS	3JNS Neoprene Split
4JNS	4JNS Neoprene Split
5JNS	5JNS Neoprene Split
6JNS	6JNS Neoprene Split
7JNS	7JNS Neoprene Split
8JNS	8JNS Neoprene Split

Part Number	Description
4	4E EPDM
5	5E EPDM
6	6E EPDM
7	7E EPDM
8	8E EPDM
9	9E EPDM 10
10E EPDM11	11E EPDM
12	12E EPDM
13	13E EPDM
14	14E EPDM
16	16E EPDM
4N	4N Neoprene
5N	5N Neoprene
6N	6N Neoprene
7N	7N Neoprene
8N	8N Neoprene
9N	9N Neoprene
10N	10N Neoprene
11N	11N Neoprene
12N	12N Neoprene
13N	13N Neoprene
14N	14N Neoprene

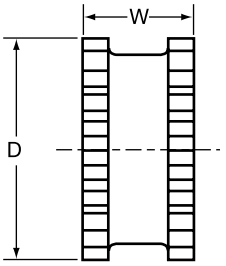
Part Number	Description
6H	6H Hytrel
7H	7H Hytrel
8H	8H Hytrel
9H	9H Hytrel
10H	10H Hytrel
11H	11H Hytrel
12H	12H Hytrel
6HS	6HS Split Hytrel
7HS	7HS Split Hytrel
8HS	8HS Split Hytrel
9HS	9HS Split Hytrel
10HS	10HS Split Hytrel
11HS	11HS Split Hytrel
12HS	12HS Split Hytrel
13HS	13HS Split Hytrel
14HS	14HS Split Hytrel
10U	10U Urethane
11U	11U Urethane
12U	12U Urethane

Assembly Dimensions

All dimensions in mm

Flexible sleeves for Wood's Sure-Flex Plus couplings are available in four materials (EPDM, Neoprene, Hytrel and Urethane) and in three basic constructions. Characteristics of the materials are given on page 4 and the various types are shown and described here.

JE, JN

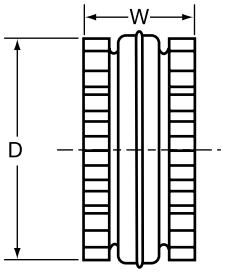


Types JES, JNS

JE-JES-JN-JNS

J sleeves are molded EPDM rubber (E) or Neoprene (N). They are available in one-piece solid construction (JE, JN) or one-piece split construction (JES, JNS). These sleeves may be used in any Sure-Flex Plus flange within a given size.

E and N
(Assembled)

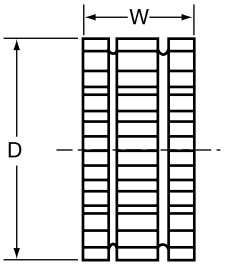


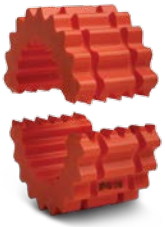
Types E and N
(Disassembled)

E-N

These sleeves are of two-piece design with a retaining ring. They are available in either EPDM (E) or Neoprene (N). They may be used with any flange within a given size. Sleeves are shown here assembled and disassembled.

H or U





HS

H-HS-U

H (Hytrel) and U (Urethane) sleeves, designed for high-torque applications, transmit four times as much power as an equivalent EPDM or Neoprene sleeve. Available in one-piece solid construction (H or U) or two-piece split construction (HS), these can be used only with S, C and SC flanges. They cannot be used with J or B flanges or as direct replacements for EPDM or Neoprene sleeves.

Dimensions (mm)

Coupling Size	JE, JES, JN & JNS Sleeves EPDM & Neoprene			E and N Sleeves EPDM & Neoprene			H, U & HS Sleeves Hytrel & Urethane		
	D	W	Wt. kg	D	W	Wt. kg	D	W	Wt. kg
3	48	25	0.03	. . .	. . .	. . .	. . .	. . .	. . .
4	75	32	0.05	75	32	0.05	. . .	. . .	. . .
5	75	40	0.09	75	40	0.11	. . .	. . .	. . .
6	95	48	0.18	95	40	0.22	95	40	0.20
7	110	55	0.28	110	55	0.35	110	55	0.31
8	129	64	0.51	129	64	0.64	129	64	0.64
9*	152	76	0.66	152	87	.095	152	76	0.82
10*	179	87	1.05	179	87	1.45	179	87	1.32
11	. . .	. . .	. . .	208	102	2.31	208	102	2.04
12	. . .	. . .	. . .	243	119	3.67	243	119	3.31
13	. . .	. . .	. . .	284	138	5.90	284	138	5.35
14	. . .	. . .	. . .	333	165	9.57	333	165	19.3
16	. . .	. . .	. . .	455	222	20.55	. . .	. . .	. . .

The 13 and 14 Hytrel available with HS sleeves only.

*All 9J and 10J sleeves available in EPDM only.

Only sizes available in Urethane.

Selection Guide

1. Select Load Symbol based on your driveN machine.

Application	Load Symbol
AGITATORS—Paddle, Propeller, Screw	L
BAND RESAW (lumber)	M
BARGE HAUL PULLER	H
BARKING (lumber)	H
BAR SCREEN (sewage)	L
BATCHES (textile)	L
BEATER AND PULPER (paper)	M
BENDING ROLL (metal)	M
BLEACHER (paper)	L
BLOWERS	
Centrifugal, Vane	L
Lobe	M
BOTTLING MACHINERY	L
BREW KETTLES (distilling)	L
BUCKET ELEVATOR OR CONVEYOR	M
CALENDERS	
Calender (paper)	M
Calender-super (paper), Calender (rubber)	H
CANE KNIVES (sugar)	M
CARD MACHINE (textile)	H
CAR DUMPERS	H
CAR PULLERS	M
CEMENT KILN	H
CENTRIFUGAL EQUIPMENT	
Blowers, Compressors, Fans, Pumps	L
CHEMICAL FEEDERS (sewage)	L
CHILLER (oil)	M
CHIPPER (paper)	H
CIRCULAR RESAW (lumber)	M
CLARIFIER or CLASSIFIER	L
CLAY WORKING MACHINERY	M
COLLECTORS (sewage)	L
COMPRESSORS	
Centrifugal, Gear, Lobe, Screw	L
Reciprocating	*
CONCRETE MIXERS	M
CONVERTING MACHINE (paper)	M
CONVEYORS	
Apron, Assembly Belt, Flight, Oven, Screw	L
Bucket	M
COOKERS—Brewing, Distilling, Food	L
COOLING TOWER FANS	H
COUCH (paper)	M
CRANES and HOISTS	M
Heavy Duty Mine	H
CRUSHERS—Cane (sugar), Stone or Ore	H
CUTTER—Paper	H
CYLINDER (paper)	H

*Consult Factory

Application	Load Symbol
DEWATERING SCREEN (sewage)	M
DISC FEEDER	L
DOUGH MIXER	M
DRAW BENCH CONVEYOR and	
MAIN DRIVE	H
DREDGES	
Cable Reel, Pumps	M
Cutter Head Drive, Jig Drive, Screen Drive	H
Maneuvering and Utility Winch, Stacker	M
DYNAMOMETER	L
DRYERS (rotary)	M
EDGER (lumber)	H
ELEVATOR	
Bucket	M
Escalator	L
Freight, Passenger, Service, Man Lift	H
ESCALATORS	L
EXTRUDER (metal)	H
FANS	
Centrifugal	L
Cooling Tower	H
Forced Draft, Large Industrial or Mine	M
FEEDERS	
Apron, Belt, Disc	L
Reciprocating	H
Screw	M
FILTER, PRESS-OIL	M
GENERATORS	
Uniform load	L
Varying load, Hoist	M
Welders	H
GRIT COLLECTOR (sewage)	L
GRIZZLY	H
HAMMERMILL	
Light Duty, Intermittent	M
Heavy Duty, Continuous	H
HOISTS	
Heavy Duty	H
Medium Duty	M
JORDAN (paper)	H
KILN, ROTARY	H
LAUNDRY WASHER or TUMBLER	H
LINE SHAFTS	L
LOG HAUL (lumber)	H
LOOM (textile)	M
MACHINE TOOLS, MAIN DRIVE	M
MANGLE (textile)	L
MASH TUBS (distilling)	L
MEAT GRINDER	M
METAL FORMING MACHINES	M

Application	Load Symbol
MILLS	
Ball, Pebble, Rod, Tube, Rubber Tumbling	H
Dryer and Cooler	M
MIXERS	
Concrete, Muller	M
Banbury	H
ORE CRUSHER	H
OVEN CONVEYOR	L
PLANER (metal or wood)	M
PRESSES	
Brick, Briquette Machine	H
Notching, Paper, Punch, Printing	M
PUG MILL	M
PULP GRINDER (paper)	H
PULVERIZERS	
Hammermill—light duty, Roller	M
Hammermill—heavy duty, Hog	H
PUMPS	
Centrifugal, Axial	L
Gear, Lobe, Screw, Vane	M
Reciprocating—sgl. or dbl. acting, cylinder	*
REEL, REWINDER (paper) CABLE	M
ROD MILL	H
SAWDUST CONVEYOR	L
SCREENS	
Air Washing, Water	L
Rotary for coal or sand	M
Vibrating	H
SCREW CONVEYOR	L
SLAB CONVEYOR (lumber)	M
SLITTERS (metal)	M
SOAPERS (textile)	L
SORTING TABLE (lumber)	M
SPINNER (textile)	M
STOKER	L
SUCTION ROLL (paper)	M
TENTER FRAMES (textile)	M
TIRE BUILDING MACHINES	H
TIRE & TUBE PRESS OPENER	L
TUMBLING BARRELS	H
WASHER and THICKENER (paper)	M
WINCHES	M
WINDERS, Paper, Textile, Wire	M
WINDLASS	M
WIRE	
Drawing	H
Winding	M
WOODWORKING MACHINERY	L

2. Determine Service Factor using Load Symbol and Driver

Load Symbol	L Light	M Medium	H Heavy
Standard AC Motor			
DC Shunt Motor	1.25	1.5	2.0
*Engine, 8 or more cylinders			
High Torque AC Motor			
DC Series & Comp.	1.5	2.0	2.5
*Engine, 4-6 cylinders			
*Engine, 3 cylinders or less	2.0	2.5	3.0
Turbine	1.0	1.25	1.5

* On applications involving varying torque loads, design around the maximum load. Then determine the resulting service factor at minimum load. If this value is greater than 4.0, special coupling alignment will be required (see page 17).

Caution: Applications involving reciprocating engines and reciprocating driven devices are subject to rotational vibrational critical speeds which may destroy the coupling. Consult factory.

3. Determine Size using Coupling Rating Tables

Use the following formula to calculate the required coupling kilowatt rating @ 100 RPM.
KW @ 100 RPM = KW x Service Factor x 100 / coupling RPM

Use the chart below to find a coupling with a KW @ 100 RPM rating which is greater than calculated above.

Example: For 4 KW @ 55 RPM, 1.25 Service Factor:
KW @ 100 = 4 x 1.25 x 100 / 55 = 9.09
Use #12 EPDM or Neoprene, or #10 Hytrel.

Note: Do not exceed a 4.0 Service Factor.

Online Selection Tools

Coupling selection program, 3-D CAD models, e-catalog and interchange guide make selecting the right coupling simple!

www.TBWoods.com/Couplings

New! Sure-Flex Plus EPDM and Neoprene sleeves have a 30% higher torque capacity.

Coupling Ratings (Metric)

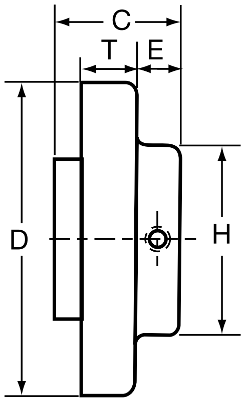
Size	EPDM Sleeve	Neoprene Sleeve	KW @ RPM				Torque (Nm)	Stifness (Nm/rad)	Max RPM
			100	970	1450	3000			
3	JE,JES	JN,JNS	0.09	0.90	1.34	2.77	8.8	26	9200
4	E,JE,JES	N,JN,JNS	0.18	1.79	2.68	5.54	17.6	52	7600
5	E,JE,JES	N,JN,JNS	0.37	3.58	5.35	11.08	35.3	104	7600
6	E,JE,JES	N,JN,JNS	0.69	6.72	10.04	20.77	66.1	194	6000
7	E,JE,JES	N,JN,JNS	1.12	10.82	16.17	33.46	106.5	313	5250
8	E,JE,JES	N,JN,JNS	1.75	16.94	25.32	52.38	166.7	490	4500
9	E,JE,JES	N	2.77	26.86	40.15	83.07	264.4	777	3750
10	E,JE,JES	N	4.42	42.90	64.13	132.69	422.3	1241	3600
11	E	N	6.97	67.60	101.05	209.07	665.5	1955	3600
12	E	N	11.08	107.44	160.61	332.29	1057.7	3107	2800
13	E	N	17.46	169.37	253.18	523.82	1667.3	4898	2400
14	E	N	27.69	268.60	401.52	830.73	2644.2	7768	2200
16	E	-	56	542	811	1677	5338	20392	1500

Size	Hytrel Sleeve	Urethane Sleeve	KW @ RPM				Torque (Nm)	Stifness (Nm/rad)	Max RPM
			100	970	1450	3000			
6	H, HS		2.13	20.66	30.88	63.89	203.4	1130	6000
7	H, HS		3.40	33.00	49.32	102.05	324.8	2260	5250
8	H, HS		5.36	51.99	77.72	160.79	511.8	3390	4500
9	H, HS		8.52	82.63	123.52	255.57	813.5	5367	3750
10	H, HS	U	13.43	130.26	194.72	402.87	1282.4	11299*	3600
11	H, HS	U	21.30	206.58	308.81	638.92	2033.7	14123*	3600
12	H, HS	U	37.27	361.52	540.42	1118.11	3559.0	25422*	2800
13	HS		55.93	542.49	810.94	1677.80	5340.6	41680	2400
14	HS		85.76	831.84	1243.48	2572.71	8189.1	67028	2200

* Urethane values are 220000, 350000, and 600000.

Type S Sure-Flex® Plus

BTS - Close Coupled Applications



Flanges

Type S flanges sizes 6 through 16 are manufactured of high strength cast iron then bored-to-size for slip fit on standard shafts. Size 5 is made of sintered carbon steel. Flanges are easy to install and remove, and are stocked in a wide range of bore sizes. All sleeve materials may be used with Type S flanges.

Bore Tolerances for Types J and S Flanges, SC Hubs

Bore (in.)	Tolerance (in.)
Up to and including 2”	+ .0005 to + .0015
Over 2”	+ .0005 to +.0020

These bores provide a slip fit.
Metric bore tolerance meets F7 clearance fit (ISO/R775:1969,mm)

Dimensions

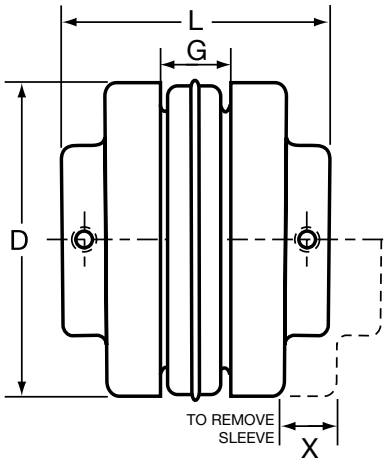
Coupling Size	Dimensions (mm)								Wt. (kg.) ■	Stock Bores (in.) ①																																					
	C	D	E	G	H	L	T	X		1/2	5/8	3/4	13/16	7/8	15/16	1	1-1/16	1-1/8	1-3/16	1-1/4	1-5/16	1-3/8	1-7/16	1-1/2	1-9/16	1-5/8	1-11/16	1-3/4	1-7/8	1-15/16	2	2-1/16	2-1/8	2-3/16	2-1/4	2-3/8	2-7/16	2-1/2	2-5/8	2-3/4	2-7/8	3	3-3/8	3-7/16	3-5/8	3-7/8	3-15/16
5S	34	83	12	18	48	71	15	25	1	0	X	X	X	X	X	X	X	X	X	X																											
6S	41	102	13	22	64	89	20	28	1		0	X		X	X	X	X	X	X	X	X	X	X	X																							
	33	102	13	22	64	89	20	28	1																	X		X																			
	40	102	20	22	71	102	20	28	1																				X																		
7S	47	117	17	25	71	100	20	33	1		0	X		X	X	X	X	X	X	X	X	X	X	X		X			X																		
8S	53	138	19	29	83	113	23	38	2			0		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X														
	49	138	26	29	83	127	23	38	2																											X											
9S	61	161	20	36	98	129	26	44	3					0	X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X									
	58	161	32	36	105	152	26	44	3																																X						
10S	69	191	21	33	111	144	31	51	5									X0		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
	68	191	37	33	121	178	31	51	4																																		X				
11S	87	219	29	48	133	181	38	60	8											0		X	X	X		X		X	X		X	X	X		X	X				X	X	X	X	X			
	87	219	40	48	143	203	38	60	7																																					X	
12S	102	255	40	59	146	210	43	68	12															0		X		X	X			X	X			X			X	X	X		X	X	X	X	
13S	111	298	33	68	171	235	50	78	21																						0		X			X					X		X	X			
X																																															
14S	114	352	30	83	191	251	57	89	31																						0										X					X	
16S	152	479	51	121	203	362	70	108	57																																	0					

① See charts on page 11.

X in the chart denotes finished bore with keyseat and 2 setscrews; 0 is plain bore suitable for reboring.

■ Approximate weight for each flange.

BTS - Close Coupled Applications



Couplings

Spacing between shafts should be greater than 1/8 in. and less than L minus .85 times the sum of the two bore diameters. Spacing between internal flange hubs equals L - 2*C. To order couplings, refer to the part number examples on page 3.

Metric bore tolerance meets F7 clearance fit (ISO/R775:1969,mm)

Dimensions

Stock Bores (mm)																							Max Bore in. (mm)		Shallow Keyseat Dimensions ② (in.)								
14	15	16	19	20	24	25	28	30	32	35	38	42	45	48	50	52	55	60	65	70	80	90	① Standard Keyseat	② Shallow Keyseat	Bore	K.S.	Key	Bore	K.S.	Key	Bore	K.S.	Key
X	X	X	X	X	X	X	X																1-3/16 (30)	1-1/4 (32)	1-1/4	1/4 X 1/16	1/4 X 3/16 X 1-3/8	...	...	...	...	...	...
	X		X	X	X	X	X	X	X	X	X												1-7/16 (37)	1-1/2 (38)	...	...	...	...	...	...	...	...	...
																							...	1-3/4 (44)	1-1/2 & 1-5/8	3/8 X 1/8	3/8 x 5/16 X▲	1-3/4	3/8 X 1/16	3/8 X 1/4 X 1-1/4	...	...	...
																							...	1-7/8 (48)	...	...	...	...	...	...	1-7/8	1/2 X 1/16	1/2 X 5/16 X 1-9/16
			X		X	X	X	X	X	X	X	X											1-5/8 (41)	1-7/8 (48)	1-7/8	1/2 X 1/8	1/2 X 3/8 X 1-7/8	...	...	...	...	...	...
					X		X	X	X		X	X	X	X									1-15/16 (49)	2-1/4 (57)	2-1/8	1/2 X 3/16	1/2 X 7/16 X 2-1/8	...	...	...	...	...	...
																							...	2-3/8 (60)	...	...	...	2-3/8	5/8 X 1/8	5/8 X 7/16 X 1-7/8	...	...	...
				X			X	X		X	X	X	X										2-1/2 (64)	2-3/4 (70)	...	...	...	...	...	...	...	...	...
																							...	2-7/8 (73)	2-7/8	3/4 X 1/8	3/4 X 1/2 X 2-1/4	...	...	...	...	...	...
								X	X	X	X	X	X	X	X	X	X	X					2-3/4 (70)	3-1/8 (79)	2-7/8	3/4 X 1/4	3/4 X 5/8 X 2-3/4	...	...	...	...	...	...
																							...	3-3/8 (86)	...	...	...	3-3/8	7/8 X 3/16	7/8 X 5/8 X 2-5/8	...	...	...
											X	X	X	X		X		X		X	X	3-3/8 (86)	3-7/16 (87)	3-7/16	7/8 X 3/16	7/8 X 5/8 X 3-7/16	...	...	...	...	...	...
																							...	3-7/8 (98)	3-7/8	1 X 1/4	1 X 3/4 X 3	...	...	...	...	...	...
															X			X	X	X	X	X	3-7/8 (98)	3-15/16 (100)	...	...	...	...	...	...	...	...	...
																							4-1/2 (114)	...	...	...	...	...	...	...	...	...	...
																							5 (127)	...	...	...	...	...	...	...	...	...	...
																							5-1/2 (140)	6 (152)	...	...	...	...	...	...	...	...	...

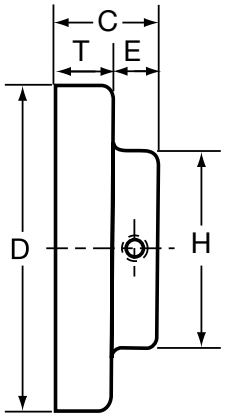
① See charts on page 11.

② Some large bore Type S flanges are supplied with shallow keyseats. In these cases, a rectangular key is furnished. The bores involved are listed above.

▲ 41mm for 38mm bore, 49mm for 41mm bore.

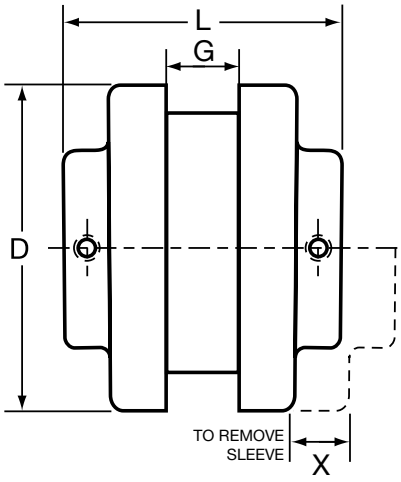
Type J Sure-Flex® Plus

BTS - Close Coupled Applications



Flanges

Type J flanges sizes 3, 4 and 5 are manufactured of sintered carbon steel. The powdered metal manufacturing process provides high dimensional accuracy and uniform material properties for high strength. Size 6 is made of high strength cast iron. Flanges are bored-to-size for a slip fit on standard shafts. The outside face of the flange is precision machined, allowing the surface to be used to align the coupling without special tools. Type J flanges can be used with EPDM and Neoprene sleeves. Each flange has a standard keyway, one setscrew over the keyway and one setscrew at 90° from the keyway.



Couplings

Spacing between internal flange hubs equals G. Spacing between shafts should be greater than 3.2mm and less than L minus .85 times the sum of the two bore diameters.

To order couplings, refer to the part number examples on page 3. When specifying Type J flanges, the coupling and bore sizes accompany the flange symbol “J”. For example, 3J x 1/2 is 3J12.

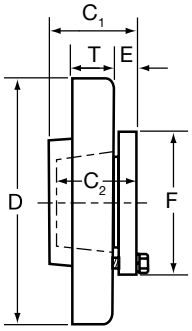
Dimensions

Size	Dimensions (mm)								Wt. (kg) ■	STOCK BORES* (Inches)										Max Bore (mm)	(Millimeters)									
	C	D	E	G	H	L	T	X		3/8	1/2	5/8	3/4	7/8	15/16	1	1-1/8	1-3/16	1-1/4	1-3/8		9	11	12	14	15	16	19	20	24	25
3J	20	52	10	10	38	50	10	16	0.14	X	X	X	X	X							7/8 (22)	...	X	X	X	X	X	X			
4J	22	63	11	16	41	60	11	16	0.18		X	X	X	X	X	X					1 (25)	...	...	...	X	X	X	X	X	X	X
5J	27	83	12	19	48	72	15	23	0.41		X	X	X	X	X	X	X				1-1/8 (29)	...	...	...	...	...	...	...	...	...	...
6J	33	102	14	22	64	89	19	28	0.54			X	X	X	X	X	X	X	X	X	1-3/8 (35)	...	...	...	...	...	...	...	...	...	...

* See page 11 for standard keyseat dimensions and page 8 for bore tolerances.

■ Approximate weight for each flange.

QD - Closed Coupled Applications



Flanges

Type B flanges are made of high-strength cast iron and are designed to accommodate Wood's Sure-Grip Bushings for easy installation and removal.

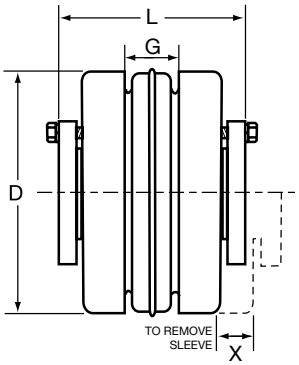
Bushings

Sure-Grip Bushings offer convenient mounting of the flange to the shaft securely without setscrews. They are tapered and are split through both the bushing flange and taper to provide a clamp fit, eliminating wobble, vibration and fretting corrosion. This is the same bushing used in Wood's sheaves and pulleys and is readily available everywhere.

Dimensions (mm)

Part Number	Bushing Required	Dimensions									Max Bore*	Weight (kg) ■	
		C_1	C_2	D	E	F	G	L	T	X		Flange	Bushing
6B	JA	31	25	102	12	51	22	86	20	28	32	36	0.36
7B	JA	41	25	117	12	51	25	89	20	33	32	48	0.36
8B	SH	48	32	138	14	68	29	103	23	28	41	74	0.45
9B	SD	57	46	161	16	97	37	121	27	45	49	122	0.68
10B	SK	49	48	191	18	98	41	140	31	51	64	198	0.91
11B	SF	56	51	219	17	117	48	159	38	60	75	305	1.59
12B	E	69	67	254	23	152	54	191	43	65	89	457	4.08
13B	F	95	92	298	27	168	68	222	50	76	100	792	6.35
14B	F	95	92	352	27	168	83	251	57	89	100	1306	6.35
16B	J	122	114	479	32	184	121	324	70	108	114	3048	9.98

*Maximum bore with keyseat. ■ Approximate weight for each flange.



Couplings

Type B Sure-Flex Plus couplings can use any EPDM and Neoprene sleeves. Do not use Hytrel sleeves with Type B couplings.

Spacing between internal flange hubs equals L minus 2 times C_2. Spacing between shafts should be greater than 3.2 mm and less than G.

To order complete couplings, specify coupling size with flange symbol (B) and bushing. Refer to page 3 to order the required coupling. Refer to charts below for bushings.

Sure-Grip® Bushing Keyseat Dimensions (mm)

Bushing	Bore	Keyseat
JA	15-16	5 x 5
	19-20	6 x 6
	24-25	8 x 6*
	28	8 x 5*
SH	24-30	8 x 7
	32-35	10 x 8
SDS	24-30	8 x 7
	32-38	10 x 8
	40-42	12 x 8
SD	24-30	8 x 7
	32-38	10 x 8
	40-42	12 x 8
SK	24-30	8 x 7
	32-38	10 x 8
	40-42	12 x 8
	45-50	14 x 9
	55	16 x 10

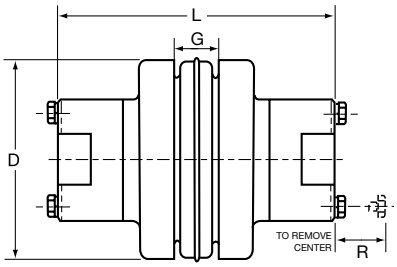
Bushing	Bore	Keyseat
SF	28-30	8 x 7
	32-38	10 x 8
	40-42	12 x 8
	45-50	14 x 9
	55	16 x 10
	60	18 x 11
	65	18 x 8*
E	35-38	10 x 8
	40-42	12 x 8
	45-50	14 x 9
	55	16 x 10
	60-65	18 x 11
	70-75	20 x 12
	80	22 x 11*
F	45-50	14 x 9
	55	16 x 10
	60-65	18 x 11
	70-75	20 x 12
	80-90	22 x 14

Bushing	Bore	Keyseat
J	50	14 x 9
	55	16 x 10
	60-65	18 x 11
	70-75	20 x 12
	80-85	22 x 14
	90-95	25 x 14
	100	28 x 16

*Shallow key furnished

Type SC Spacer Couplings

BTS - Conventional Spacer Design



For other distances between shaft ends not shown here, please see page F1-16 or use the Coupling Selection Program at **www.TBWoods.com /Select**

For dimensions of separate Type SC Spacer components, refer to page 13.

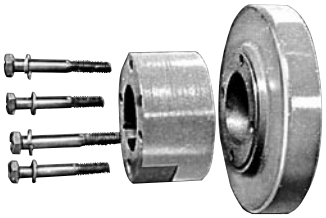
Flanges (mm)

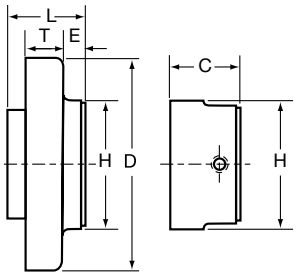
Coupling Size	Required Distance Between Shafts	Use Flange Number	Use Hub Number	Maximum Bore		Dimensions (mm)				Weight (kg) ■
				in.	mm	D	L ②	G	R	
4JSC ①	89	4JSC35	...	1-1/8	29	62	143	16	...	1.22
5SC	89	5SC35	5SCH	1-1/8	29	83	143	19	15	2.04
6SC	89	6SC35	6SCH-6SCHS	1-3/8	35	102	149	22	19	3.31
	112	6SC44	6SCH-6SCHS	1-3/8	35	102	171	22	19	3.67
	127	6SC50	6SCH-6SCHS	1-3/8	35	102	187	22	19	3.95
7SC	89	7SC35	7SCH-7SCHS	1-5/8	41	117	162	25	16	4.49
	112	7SC44	7SCH-7SCHS	1-5/8	41	117	184	25	16	4.90
	127	7SC50	7SCH-7SCHS	1-5/8	41	117	200	25	16	5.17
8SC	89	8SC35	8SCH-8SCHS	1-7/8	48	138	175	29	21	6.89
	89	8SC35-10	10SCH-10SCHS	2-3/8	60	138	206	29	21	10.52
	112	8SC44	8SCH-8SCHS	1-7/8	48	138	197	29	21	7.44
	127	8SC50	8SCH-8SCHS	1-7/8	48	138	213	29	30	7.89
	127	8SC50-10	10SCH-10SCHS	2-3/8	60	138	244	29	30	12.34
9SC	89	9SC35	9SCH-9SCHS	2-1/8	54	161	191	37	27	8.44
	112	9SC44	9SCH-9SCHS	2-1/8	54	161	210	37	27	10.07
	127	9SC50	9SCH-9SCHS	2-1/8	54	161	225	37	27	10.52
	127	9SC50-11	11SCH-11SCHS	2-7/8	73	161	264	37	30	18.33
	178	9SC70-11	11SCH-11SCHS	2-7/8	73	161	314	37	30	21.86
	197	9SC78-11	11SCH-11SCHS	2-7/8	73	161	333	37	30	23.13
10SC	112	10SC48	10SCH-10SCHS	2-3/8	60	191	238	41	30	17.06
	127	10SC50	10SCH-10SCHS	2-3/8	60	191	244	41	48	17.42
	178	10SC70-13	13SCH-13SCHS	3-3/8	86	191	346	41	48	32.66
	197	10SC78-13	13SCH-13SCHS	3-3/8	86	191	365	41	48	34.47
	254	10SC100-13	13SCH-13SCHS	3-3/8	86	191	422	41	48	39.92
11SC	112	11SC48	11SCH-11SCHS	2-7/8	73	219	262	48	30	24.72
	127	11SC50	11SCH-11SCHS	2-7/8	73	219	264	18	30	24.81
	178	11SC70-14	14SCH	3-7/8	98	219	371	18	51	39.05
	197	11SC78-14	14SCH	3-7/8	98	219	391	18	51	40.96
	254	11SC100-14	14SCH	3-7/8	98	219	448	18	51	46.58
12SC	178	12SC70	12SCH-12SCHS	2-7/8	73	254	327	59	38	39.96
	178	12SC70-14	14SCH	3-7/8	98	254	371	59	51	44.95
	197	12SC78	12SCH-12SCHS	2-7/8	73	254	346	59	38	41.69
	197	12SC78-14	14SCH	3-7/8	98	254	391	59	51	46.86
	254	12SC100-14	14SCH	3-7/8	98	254	448	59	51	52.48
13SC	197	13SC78	13SCH-13SCHS	3-3/8	86	248	365	68	48	58.79
14SC	197	14SC78	14SCH	3-7/8	98	352	391	83	51	81.60

■ Approximate weight for each flange.
① 4JSC35 x 28.58 has shallow keyseat. ② "L" dimension and weight will change if one or two short (HS) hubs used.

Note: Refer to pages 13-14 to order — specify components separately

Type SC Flanges and Hubs





Tables on pages 13-14 provide dimensional information for flanges and hubs used for Spacer Coupings. For assembled dimensions, see table on page 12. Any of the sleeves shown on page 5 may be used.

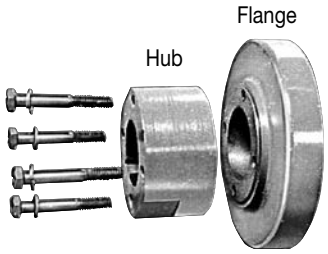
Flanges (mm)

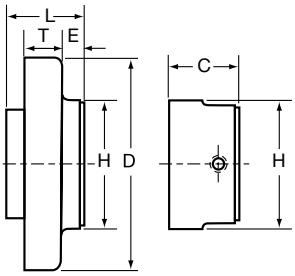
Coupling Size	Flange Number	For Distance Between Shafts*	For Hub	Dimensions (mm)					Weight (kg) ■
				D	E	H	L	T	
4JSC	4JSC35	79		62	52	51	64	11	.59
5SC	5SC35	89	5SCH	83	20	51	43	15	.59
	6SC35	89	6SCH-6SCHS	102	15	64	41	18	.91
6SC	6SC44	112	6SCH-6SCHS	102	26	64	52	18	1.90
	6SC50	127	6SCH-6SCHS	102	34	64	60	18	1.23
	7SC35	89	7SCH-7SCHS	117	12	71	41	20	1.13
7SC	7SC44	112	7SCH-7SCHS	117	23	71	52	20	1.36
	7SC50	127	7SCH-7SCHS	117	31	71	60	20	1.50
	8SC35	89	8SCH-8SCHS	138	7	83	41	23	1.68
	8SC35-10	89	10SCH-10SCHS	138	7	111	41	23	1.59
8SC	8SC44	112	8SCH-8SCHS	138	18	83	52	23	1.95
	8SC50	127	8SCH-8SCHS	138	26	83	60	23	2.18
	8SC50-10	127	10SCH-10SCHS	138	26	111	60	23	2.50
	9SC35	89	9SCH-9SCHS	161	2	92	43	26	1.86
	9SC44	112	9SCH-9SCHS	161	11	92	52	26	2.68
9SC	9SC50	127	9SCH-9SCHS	161	19	92	60	26	2.90
	9SC50-11	127	11SCH-11SCHS	161	19	133	60	26	3.18
	9SC70-11	178	11SCH-11SCHS	161	44	133	86	26	4.94
	9SC78-11	197	11SCH-11SCHS	161	54	133	95	26	5.58
	10SC48	112	10SCH-10SCHS	191	9	111	57	31	4.45
	10SC50	127	10SCH-10SCHS	191	12	111	60	31	4.63
10SC	10SC70-13	178	13SCH-13SCHS	191	37	156	86	31	6.58
	10SC78-13	197	13SCH-13SCHS	191	47	156	95	31	7.48
	10SC100-13	254	13SCH-13SCHS	191	50	156	124	31	10.21
	11SC48	112	11SCH-11SCHS	219	1	133	38	38	5.67
	11SC50	127	11SCH-11SCHS	219	2	133	40	38	5.72
11SC	11SC70-14	178	14SCH	219	27	165	65	38	7.39
	11SC78-14	197	14SCH	219	37	165	75	38	8.35
	11SC100-14	254	14SCH	219	65	165	103	38	11.16
	12SC70	178	12SCH-12SCHS	254	17	146	63	43	10.61
	12SC70-14	178	14SCH	254	17	165	63	43	9.66
12SC	12SC78	197	12SCH-12SCHS	254	26	146	72	43	11.48
	12SC78-14	197	14SCH	254	26	165	72	43	10.61
	12SC100-14	254	14SCH	254	55	165	101	43	13.43
13SC	13SC78	197	13SCH-13SCHS	298	14	156	83	50	17.42
14SC	14SC78	197	14SCH	352	1	165	69	57	25.04

*Flanges can be mixed to form different Between-Shaft Dimensions. See chart page 15. ■ Approximate weight for each flange.
▲ If using 10HS hub, 7/16-14NC x 2-1/4 long capscrew needed (not furnished).

Type SC Couplings Flanges and Hubs

Type SC Flanges and Hubs





Tables on pages 13-14 provide dimensional information for flanges and hubs used for Spacer Coupings. For assembled dimensions, see table on page 12. Any of the sleeves shown on page 5 may be used.

Hubs

Coupling Size	Hub Number	Maximum Bore		Stock Bores* (in)		Dimensions (mm)			Weight (kg) ■
		in	mm	Plain Bore	Bore with Standard Keyway & SetScrew	C	H	Cap Screws Furnished (in.)	
4JSC	†	1-1/8	29	...	5/8 – 7/8 – 1 – 1-1/8*	27	51	...	...
5SC	5SCH	1-1/8	29	1/2	5/8 – 3/4 – 7/8 – 1 – 1-1/8	28	51	4–10 x 1-1/2	.363
6SC	6SCH	1-3/8	35	5/8	3/4 – 7/8 – 1 – 1-1/8 – 1-1/4 – 1-3/8	31	64	4–1/4 x 1-3/4	.635
	6SCHS	7/8	22	...	7/8	25	64	4–1/4 x 1-1/2	.499
7SC	7SCH	1-5/8	41	5/8	7/8 – 1 – 1-1/8 – 1-3/8 – 1-1/2 – 1-5/8	37	71	4–1/4 x 1-7/8	.907
	7SCHS	7/8	22	...	7/8	28	71	4–1/4 x 1-1/2	.680
8SC	8SCH	1-7/8	48	3/4	7/8 – 1 –1-1/8 – 1-3/8				
					1-1/2 – 1-5/8 – 1-3/4 – 1-7/8	44	83	4–5/16 x 2-1/4	1.452
	8SCHS	7/8	22	...	7/8	31	83	4–5/16 x 1-3/4	.907
9SC	9SCH	2-1/8	54	7/8	1 – 1-1/8 – 1-3/8 – 1-1/2				
					1-5/8 – 1-3/4 – 1-7/8 – 2-1/8	50	92	4–3/8 x 2-3/4	1.905
	9SCHS	1-1/2	38	...	1-1/8	39	92	4–3/8 x 2-1/4	1.678
10SC	10SCH	2-3/8	60	1-1/8	1-5/8 – 1-7/8 – 2-1/8 – 2-3/8	60	111	4–7/16 x 3-1/4	3.357
	10SCHS	1-5/8	41	...	1-1/8	42	111	4–7/16 x 2-1/2	2.495
11SC	11SCH	2-7/8	73	1-1/8	1-7/8 – 2-1/8 – 2-3/8 – 2-7/8	69	133	4–1/2 x 3-1/2	5.534
	11SCHS	1-7/8	48	...	1-1/8 – 1-5/8	48	133	4–1/2 x 2-3/4	4.218
12SC	12SCH	2-7/8	73	1-3/8	2-1/8 – 2-3/8 – 2-7/8	75	146	4–5/8 x 4	7.530
	12SCHS	2-1/2	64	...	2-3/8	64	146	4–5/8 x 3-1/2	6.396
13SC	13SCH	3-3/8	86	1-3/8	2-3/8 – 2-7/8 – 3-3/8	85	156	4–5/8 x 4-1/2	9.027
	13SCHS	2-1/2	64	...	2-1/8 – 2-3/8	63	156	4–5/8 x 3-1/2	7.258
14SC	142SCH	3-7/8	98	1-5/8	2-3/8 – 2-7/8 – 3-3/8 – 3-7/8	98	165	4–5/8 x 5	10.977

† For 4JSC the hub is an integral part of the flange. 4JSC x 28.58 has 6.35 x 1.59 shallow keyseat. ■ Approximate weight for each hub.

* See page 8 for bore tolerances, page 11 for standard keyseat dimensions.

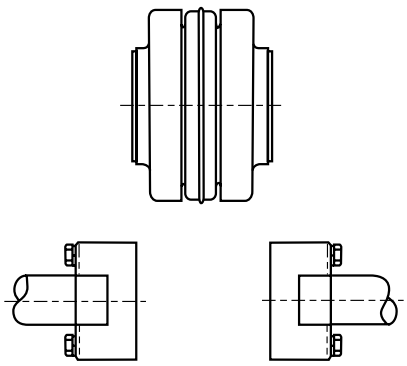
Between Shaft Spacing

Spacer couplings are available for most popular between-shaft dimensions. Other spacings can be achieved by mixing flanges.

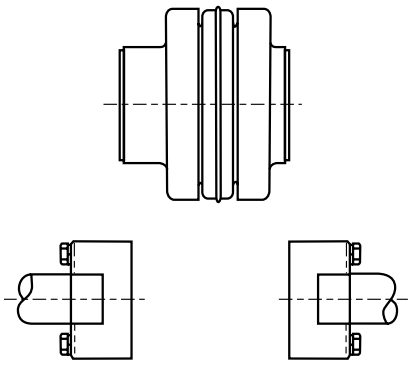
The “Standard” column provides spacings using identical flanges; the “Combination” column mixes flanges; the column headed “Semi-Spacer” uses one flange that is not made for spacer coupling applications and thus does not have a detachable hub.

To select couplings for various DBSEs, please see our Coupling Selector Program at

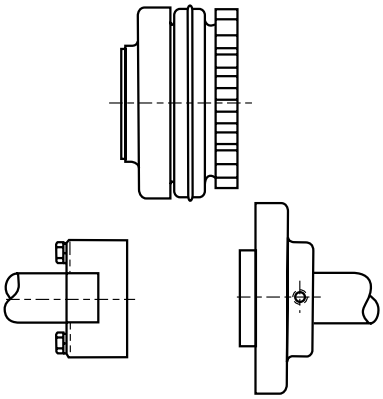
www.TBWoods.com/Select



Standard



Combination



Semi-Spacer

Standard (mm)	
Spacing	Uses Flanges*
80	2-( )SC35
111	2-( )SC44
127	2-( )SC50
178	2-( )SC70
197	2-( )SC78
254	2-( )SC100

Combination (mm)	
Spacing	Uses Flanges*
100	SC35 & SC44
108	SC35 & SC50
119	SC44 & SC50
133	SC35 & SC70
143	SC35 & SC78
144	SC44 & SC70
152	SC50 & SC70
154	SC44 & SC78
162	SC50 & SC78
171	SC35 & SC100**
183	SC44 & SC100**
187	SC70 & SC78
191	SC50 & SC100
216	SC70 & SC100
225	SC78 & SC100

Semi-Spacer (mm)	
Spacing	Uses Flanges*
48	S & SC35
58	S & SC44
67	S & SC50
92	S & SC70
102	S & SC78
130	S & SC100

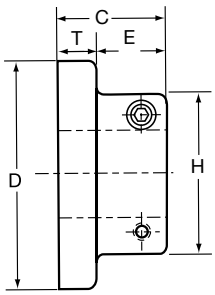
* Check individual coupling size for flange availability.

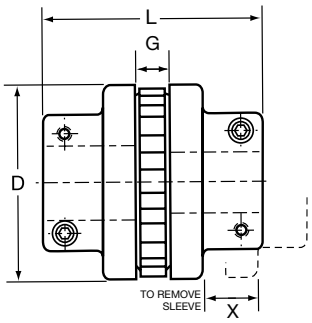
** Non-Stock

Note: Other Combinations available — consult factory.

Type C Sure-Flex® Plus

Clamp Hub Spacer and Design





Flanges

Sure-Flex® Plus Type C Clamp Hub flanges employ integral locking collars and screws to assure a clamp fit on the shaft. One setscrew is furnished over the key. They are designed primarily for applications where flanges must be removed from one or both shafts without moving either the driver or driven units. A typical application is a screw compressor which uses a replaceable face seal around the input shaft.

Couplings

Type C Clamp Hub Couplings normally use Hytrel sleeves. However, any of the sleeves shown on page 5 can be used. Type C couplings may often be used where spacer couplings are required.

Spacing between internal flange hubs equals G.To order complete couplings, specify coupling size with flange symbol (C), giving bore required. Refer to page 3 to order the required coupling.

Dimensions (mm)

Product Number	Stock Bores	Min Bore		Maximum Bore				Distance Between Shafts		Dimensions (mm)							Approx. Weight (kg.)*
				Standard KS		Shallow KS											
		in.	mm	in.	mm	in.	mm	Min	Max	C	D	E	G	H	L	X	
6C	1-1/8, 1-7/8, 40mm	7/8	22	1-5/8	41	1-7/8	48	2 (51mm)	2-3/4 (70mm)	49	102	29	22	76	121	25	1.6
7C	1-3/8, 1-7/8, 35mm, 40mm	1-1/8	29	1-7/8	48	...	...	2-5/16 (59mm)	3-7/16 (87mm)	71	117	36	27	83	138	30	1063.0
8C	1/3/8, 1-5/8, 1-3/4, 1-7/8 2-1/8, 2-1/4, 2-3/8, 40mm	1-3/8	35	2-1/4	57	2-3/8	60	2-9/16 (65mm)	4 (102mm)	64	138	40	29	98	156	35	3.0
9C	1-5/8, 1-3/4, 1-7/8, 2, 2-1/8, 2-1/4, 2-3/8, 2-1/2	1-5/8	41	2-1/2	64	2-5/8	68	3-1/16 (78mm)	4-5/8 (117mm)	76	161	50	37	108	189	40	4.5
10C	1-5/8, 1-7/8, 2-1/4, 2-3/8, 2-1/2	1-5/8	41	2-7/8	73	...	...	3-9/16 (90mm)	5-1/4 (133mm)	89	191	58	43	127	221	46	7.5
11C	2-1/8, 2-3/8, 2-1/2	1-7/8	48	3-3/8	86	...	...	4-1/8 (105mm)	5-7/8 (149mm)	102	219	63	48	137	251	54	11.8
12C	2-1/8	1-7/8	48	3-3/8	86	...	...	4-7/8 (124mm)	6-1/2 (165mm)	111	254	68	60	152	283	60	17.4

For Standard Keyseat dimensions, see chart page 11. *Weight of one flange.

Bore Tolerances for Type C Flanges

These bores provide a slip fit.

Bore (in.)	Tolerance (in.)
Up to and including 2”	+ .0005 to + .0015
Over 2”	+ .0005 to + .0020

Shallow Keyseat Dimensions

Some large bore Type C flanges are supplied with shallow keyseats. In these cases, a rectangular key is furnished. The flanges and bores involved are as follows:

Size	Bore Range	KS	Key Furnished
6C	1-11/16 to 1-7/8	1/2 x 1/16	1/2 x 5/16 x 1-15/16
8C	2-5/16 to 2-3/8	5/8 x 1/16	5/8 x 3/8 x 2-1/2
9C	2-7/16 to 2-11/16	5/8 x 3/16	5/8 x 1/2 x 3

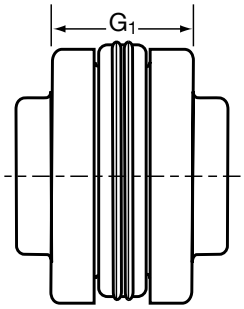
Metric bore tolerance meets F7 clearance fit (ISO/ R775:1969, mm)

Sure-Flex Plus flanges (outer metallic parts) and sleeves (inner elastomeric elements) come in many sizes and types. First, determine the size and type of components being used. Check maximum RPM values in the table below against operating speed. Remove all components from their boxes, and loosely assemble the coupling on any convenient surface. (If using a two-piece E or N sleeve, do not install the wire ring at this time.)

1. Inspect all coupling components and remove any protective coatings or lubricants from bores, mating surfaces and fasteners. Remove any existing burrs, etc. from the shafts.

2. Slide one coupling flange onto each shaft using keys where required. When using Type B flanges, follow the instructions furnished with the Sure-Grip bushings.

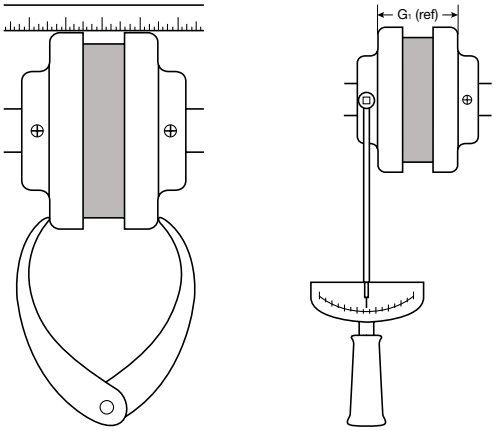
3. Position the flanges on the shafts to approximately achieve the G_1 dimension shown in the table. It is usually best to have an equal length of shaft extending into each flange. Move one flange to its final position. Torque fasteners to proper values. Slide the other flange far enough away to install the sleeve. With a two-piece sleeve, do not move the wire ring to its final position; allow it to hang loosely in the groove adjacent to the teeth.



4. Slide the loose flange on the shaft until the sleeve is completely seated in the teeth of each flange. (The "G_1" dimension is for reference and not critical.) Secure the flange to the shaft. Different coupling sleeves require different degrees of alignment precision. Locate the alignment values for your sleeve size and type in the table.

5. Check parallel alignment by placing a straight-edge across the two coupling flanges and measuring the maximum offset at various points around the periphery of the coupling without rotating the coupling. If the maximum offset exceeds the figure shown under "Parallel" in the table, realign the shafts.

6. Check angular alignment with a caliper. Measure from the outside of one flange to the outside of the other at intervals around the periphery of the coupling. Determine the maximum and minimum dimensions without rotating the coupling. The difference between the maximum and minimum must not exceed the figure given under "Angular" in the table. If a correction is necessary, be sure to recheck the parallel alignment.



Maximum RPM and Allowable Misalignment

Sleeve Size	Max RPM	Types JE, JN, JES, JNS, E & N (mm)			*Type H & HS (mm)		
		Parallel	Angular	G1	Parallel	Angular	G1
3	9200	.25	.89	30.2	...	...	...
4	7600	.25	1.09	38.1	...	...	...
5	7600	.38	1.42	49.2	...	...	...
6	6000	.38	1.78	60.3	.25	.41	60.3
7	5250	.51	2.06	65.1	.31	.51	65.1
8	4500	.51	2.39	74.6	.38	.64	74.6
9	3750	.64	2.80	88.9	.43	.71	88.9
10	3600	.64	3.21	103	.51	.81	103.2
11	3600	.81	3.89	124	.56	.94	123.8
12	2800	.81	4.44	119	.64	1.07	144.5
13	2400	1.02	4.95	170	.76	1.27	168.3
14	2200	1.14	6.15	197	.89	1.52	196.9
16	1500	1.58	7.38	260	...	...	...

Note: When using a VFD with a centrifugal pump or fan, reduce the above values by 1/2.

*Type H and HS sleeves should never be used as direct replacements for EPDM or Neoprene sleeves.

7. If the coupling employs the two-piece sleeve with wire ring, move the ring into its groove in the center of the sleeve. If necessary, use soapy water and lever the ring with a blunt tool.

8. Install coupling guards.

CAUTION: Coupling sleeves may be thrown from the coupling assembly with substantial force if subjected to a severe shock load.

Notes

TB Wood's offers a wide range of couplings for industrial applications

For over 70 years, TB Wood's has been designing and manufacturing innovative coupling solutions to meet the requirements for a broad variety of applications spanning many industries. TB Wood's couplings represent the latest in technology, featuring superior design and exceptional quality to ensure long-lasting performance in all types of industrial applications including printing presses, machine tools, cooling tower fans, food processing equipment, pumps, blowers, electric motors, compressors, mixers, and conveyors.

L-Jaw
Elastomeric Couplings

Jaw-type elastomeric couplings are an economical, proven solution for general purpose applications. Jaw couplings are easy to install and require no lubrication or maintenance. Four different flexible insert types are available: Buna-N rubber, Urethane, Hytrel™ and Bronze. Jaw couplings are an excellent choice for all light and medium duty general purpose industrial applications. Models available with torque capacities up to 0.70 kNm; 6,228 in.lbs.

See Catalog P-1686-TBW

Dura-Flex
Elastomeric Couplings

Dura-Flex couplings are designed from the ground up using finite element analysis to maximize flex life. Dura-Flex couplings employ a lightweight element that absorbs shock loading and torsional vibration. A flexible polyurethane material offers superior chemical, dynamic and weathering properties. The specially designed "split-in-half flex element" moves stress away from the bond, extending flex life. Dura-Flex couplings are directly interchangeable with similar couplings for fast and easy replacement. Models available with torque capacities up to 4.5 kNm; 39,500 in.lbs.

See Catalog P-1686-TBW

G-Flex
Grid Couplings

State-of-the-art design from Bibby Transmissions, the original grid coupling manufacturer. G-Flex is an all-metal coupling that provides positive protection against the damaging effects of shock loads and vibration. Aluminum horizontal cover (T10), and all-steel vertical cover (T20) designs are available. G-Flex tapered grid couplings are an excellent choice where torsional flexibility and vibration damping are primary concerns. Models available with torque capacities up to 169 kNm; 1,500,000 in.lbs.

See Catalog P-1686-TBW

Form-Flex
Disc Couplings

Form-Flex metal disc couplings consist of two hubs, a spacer and two high strength carbon or stainless steel flexible discs. Modified and special designs are commonly supplied to meet specific application conditions. Available in carbon steel, stainless steel or with corrosion resistant coatings. Models available with torque capacities up to 270 kNm; 2,400,000 in.lbs.

See Catalog P-1686-TBW

Altra Industrial Motion

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